WHEEL WITH INDIA-RUBBER TIRE .- Mesars. Bird & Co. of London have lately brought into notice a new and improved wheel, with India-rubber tire, which is claimed to be capable of wearing as long as, or longer than an iron tire, and to have the great advantage of perfect noiselessness and absence of injurious jar. The draught of the carriage is said to be reduced by the use of this tire nearly one-third.
It appears to be simply a tire of solid rubber, fastened on the exterior of an ordinary wheel by bolts, such as are used with iron ties, and it may be thinner than the usual kind merely serving the purpose of a band to hold the woodwork irmly together.

VALUE OF JUTE FOR FABRICS.-The place which jute now occupies among raw materials wrought into useful articles, in Great Britain, may be inferred from the fact that the quantity annually imported nearly equals that of flax. It is used not only for the production of various kinds of coarse textile fabrics, but also for hats, paper, carpets, and to a very great extent for women's chignons. According to Dr. Hodges, the difficulties hitherto experienced in bleaching jute may be removed, by passing the raw material successively through baths of alkaline solutions and of hypochlorite of magnesia and soda. In practice jute may be distinguished from hemp by its striking a deep golden yellow with antime sulphate.

DECOMPOSITION OF EGGS .- According to Mr. William Thompson of Manchester the decomposition of eggs may be brought about by any one of three different agencies. The first, which he terms " putrid cell," is generated from the yolk, this swelling and absorbing or mixing entirely with the white, and ending with a true putrefaction. The second is that of the vibrio, the germs of which (floating as they do through the atmosphere), when settling on the moist surface of an egg, readily penetrate into it, and set in motion the putrefactive condition; but when the shell is dry such penetration is impossible. The third is a fangus decomposition, in which the spores penetrate within the shell as before, sending filaments through the egg and converting the white into the consistency of a strong jelly, the filaments being experience so, shundard as to cause the whole constitutions. sometimes so abundant as to cause the whole con-tents to resemble a hard-boiled egg.

VERY SIMPLE AND CHEAP FOUNTAIN-PEN.-In spite of the recognized desirability of a pen that will retain a supply of ink for some time, no one of the various and more or less complicated forms of so-called fountain-pens has proved entirely satisfactory, although generally comparatively expensive. According to the following plan, suggested by Engineer Kiefte, any one can in a few minutes construct a pen of the kind, that will be perfectly satisfactory. Two ordinary steel pens are fixed in the same holder in such a way that they may be separated by a space of about 1-25 of an inch, and that the point of the upper one may be a little above that of the other. By selecting for the upper pen one with a bend in the middle, this will be most readily accomplished. In dipping into the ink, it rises and fills the space between the pens, and flows down adually, as wanted in writing.

A METHOD OF RAISING AND LOWERING THE SCREW OF A PROPELLER .- Mr. Harland of Belfast gave an account before the British Association of his method for raising and lowering the screw propeller in ships, remarking that during some voyages, and especially scross the Atlantic, the wave line of the side of the ship was very often such as to leave an ordinary screw half exposed. Under these circumstances the engine has only half work to do, and consequently is apt to run off at such speed as to injure the machinery. To prevent this he has devised a simple method of lowering the screw, enabling the engineer in heavy weather to keep the vessel going much steadier, with very little reduced speed. A large amount of power was thus utilized, with the advantage of a uniform motion. In the normal position of the screw the tip should be in a line with position of the screw the tip should be in a line with the keel; but when the vessel is in more water than she really requires, the screw can be lowered, involving no change in the speed of the engine. To prevent the screw coming in centact with fishermen's nets, or other obstacles, a small shoe can be slipped under it if necessary. Mr. Harland's invention includes also a method of clevating the screw, to avoid contact with ice or other floating objects, and to enable it to be repaired without the necessity of actually taking the vessel into dock. The operation of raising and lowering the screw is medity and ranging necessary means of a small readily and rapidly performed by means of a small engine on the deck. The invention of Mr. Harland was regarded by experts present at the meeting as being one of the most important ever introduced into steam navigation

A SUBSTITUTE FOR IVORY.-A substance under the name of celluloid, the invention of Mr. Hyatt of Albany, originally intended as a substitute for ivory in the manufacture of billiard balls, possesses qualities which render it applicable to a great variety of manufactures. As originally prepared it consisted of a combination of soluble cotton and ether or alcohol, but it was subsequently ascertained that a still more satisfactory result could be obtained by the addition of camphor to the alcobol; and, finally, camphor alone was mixed with the ground cotton pulp, which hardens in drying and becomes "celluloid." This substance-which is maintained by the inventor to be a truly chemical compound and not a mechanical mixture-can be colored in any way desired. The varying degrees of solidity and flexibility required are obtained by the different proportions of the camphor.

tained by the different proportions of the camphor. The substance is naturally of a pale amber color, but may be made of any tint by the application of mineral pigments or dyes soluble in alcohol, or any of the aniline calors may be employed.

Celebeld is hard and elastic, ranging in hardness from that of non-to-ivery. It is as tough as whale-bone, elasticity being one of its most prominent characteristics. In this respect it greatly exceeds ivery. It makes good insulators for knobs of telegraphic instruments, for insulating posts for electricabile instruments, for insulating posts for electricabile. ivory. It makes good insulators for knobs of telegraphic instruments, for insulating posts for electrical machines, and for telecraphic wires; as although a good non-conductor it is not perceptibly electric. It is well adapted to the mannfacture of combs, and is largely used in the preparation of dental plates, as it can be made of precisely the color of the palate and gams. At a temperature of 250° to 200°, it can be molded into any desired form. Soveral companies have been started for the manufacture of different objects from celluloid; two in Newark, and several others in Philadeiphia, New-York, and elsewhere.

FERTILIZERS FROM THE RESIDUE OF THE MANU-FACTURE OF MEAT EXTRACT .- As is well known, large quantities of a sort of concentrated are manufactured from the flesh of cattle in South America, and sold in the market under the name of "Liebig's Extract of Meat." The residue from the preparation of this extract, consisting of flesh, connective tissue, bones, blood, &c., is worked ever into products of great value for fodder and fertilizing purposes, and is of late sold largely in Europe. The "Liebig Meat Extract Company, at Fray Bentos, in Uruguay, prepare from the residue of the manufacture of their extract, three different products, known as Meat Flour, Fray Bentos Guano and Fray Bentos Bone-dust. In preparing the bone-dust the bones are steamed, and the fatty matters removed. They are then stamped and finely ground, thus making a very clean, nearly white, and fine powder. In late Ger-

clean, nearly white, and fine powder. In late German journals, reports are given of analyses of the Fray Bentos bone meal, by Hulwa, by Krocker, and by Peters, the results of which are nearly alike, and show the percentage of moisture to be about 4½, of nitrogen 3½, and of phosphoric acid, 24 to 25½.

The Fray Bentos guano, consisting of the dried and pulverized flesh, connective tissue, blood, &c., with some bone, is a yellowish white, powdery material with a guano-like odor. It contains considererable nitrogen, a small part of which exists in the form of ammonia, and likewise some phosphoric acid, a small portion of which is soluble. Analyses by the above-named chemists give the following per centages: Moisture, about 7½; nitrogen, 6½ to 7½; phosphoric acid, 1½ to 15. These analyses of different samples indicate that the Fray Bentos fertilizers contain little moisture, and sufficiently large quantities of nitrogen and phosphoric acid to make them very valuable. The value and commercial importance of fertilizers of this sort are indicated by the fact that, in 1873, the amount furnished to the European market from the Fray Bentos Meat Extract

Company's works alone were computed at from 4,000,000 to 5,000,000 pounds annually.

MEAT-FLOUR AS FOOD FOR PIGS. - A comparatively new foddering material, known as meat-flour, is attracting considerable attention at present among German experimenters. This material is manufactured from the meat which remains from the preparation of "Liebig's Meat Extract." At Fray Bentos, in Uruguay, in South America, immense numbers of cattle are slaughtered annually for the preparation of this meat-extract. The muscular tissue (the lean meat) is separated, cut in fine pieces and treated for some time with water at 140° F., which dissolves out a portion of the organic and mineral substances. The broth thus formed is boiled down until it is quite thick, and contains 20 per cent water, forming the meat extract. Of late attempts have been made to utilize the meat remaining from this treatment-over 90 per cent-which was formerly wasted. It is dried and finely ground, and, in this form, contains some 73 per cent albuminoids and 121 per cent fat. Since the nitrogenous ingredients of the food, the albuminoids alone contribute to the formation of flesh and other nitrogenous parts of the animal body, and since these ingredients of the food are the most costly, it is evident that a material so rich in albuminords as the dent that a material so rich in albuminoids as the meat-flour, if it could be successfully used as fodder, would be of great value for mixing with fodder materials poor in nitrogen. How important it might become as an article of commerce appears from the fact that the Fray Bentos Company alone slaughters annually some 78,000 cattle, which would furnish 6,000,000 pounds of the meat residue, containing 4,500,000 pounds albuminoids.

The value of this meat-flour as food for swine, has been tested at several of the experiment-stations.

4.500,000 pounds albuminoids.

The value of this meat-flour as food for swine, has been tested at several of the experiment-stations, and by some practical farmers in Germany, and with results in the main quite gratifying. It is found necessary to restore the alkaline salts, removed in making the extract. In absence of these, the animals lose their appetite, become sickly, and, in some cases, show signs of rachitis and softening of the bones. When meat-flour, with chloride and phosphate of potash added, was mixed with potatoes and fed out to pigs, the animals fattened tapidly, and showed a normal and healthy growth. The natritive value of meat-flour fed in this way has been tested by Lehmann, Dinkelberg, and Hofmeister, at the experiment-stations in Bonn, Munich, and Dresden, and with similar results. In each the increase in live weight, after subtracting what was calculated to be due to the potatoes, was about one pound to one pound of meat-flour. Hofmeister and Delius have, from the results of these experiments, made some calculations as to the nutritive value of animal, as compared with vegetable albuminoids. They infer that the albuminoids of meat-flour have nearly double the value as expressed by the increase in live weight produced, of those of barley. Hofmeister for that the abbuninoids of inear-nour have heard double the value as expressed by the increase in live weight produced, of those of barley. Hofmeister adds: "Meat flour has thus proved in all respects excellent as a nitrogenous food to be added to other foods rich in starch for feeding young swine. It should however be fed in small quantities. By so doing excellent results can be obtained."

PURB AND MIXED LANSEED CAKES,-The Journal for 1873 of the Royal Agricultural Society of England contains a very valuable report by Prof. Voelcker, on "The Characters of Pure and Mixed Linseed Cakes." As chemist to the Society, Dr. Voelcker often receives in a single year 150 or 200 samples of various kinds of feeding-cakes and meals for examination. Some of the results of this extensive experience are presented in the report referred to, which discusses the composition and characters of pure linseed cakes, and the means of distinguishing genuine from inferior or adulterated cakes; the materials used in the manufacture of mixed or compound feeding cakes, and the propertics of various substances employed for adulterating linseed-cake; the composition and properties of inferior and adulterated mixed cakes; and the causes which render feeding cakes either poisonous or more or less injurious and dangerous to the health of the stock. In order to find an explanation of the remarkable differences in the quality of linseed cakes, a large number of samples of commercial linseed from various parts of the world were examined, and foreign weed seeds and impurities found therein, in amounts varying from 11 to 70 per cent, Some 23 different kinds of seeds were found, besides various sorts of clover and grass seeds. Among these were seeds of rape, red or wild mustard, white mustard, dodder, purging-flax, corn-cockle, millet, sheep sorrel, dandelion, knotgrass, buckwheat, &c. Of these rapeseed is itself quite valuable for cakes, and a number of the other seeds are of themselves harmless. Of the materials used in the manufacture of mixed or compound feeding-cakes, a list of more than 30 kinds is given, including rape-cake, groundnut cake (peanut), cotton cake, cocoanut cake, palm-nut cake, castor-oil cake, curcas cake, olive cake, rice meal, bran, and sawdust. "Some of the materials which, like cureas beans or castor-oil cake, are downright poison, do not frequently occur, and generally get mixed with feeding cakes through and generally get mixed with feeding cakes through ignorance or carelessness; as when the sweepings of warehouses, granaries or provision stores, are pressed into compound cakes." Besides cureas and castoroil beans, no other positively poisonous ingredients were found in linseed cakes. In rape-seed cake, however, black or wild mustard frequently occurs, in such quantities as to render it entirely unfit for feeding purposes.

eding purposes.

The injurious effects observed from the feeding of The injurious effects observed from the feeding of oilcakes are often due, not to any poisonous adulteration, but rather to a moldy, rancid, or heated condition of the cake. The evil effects of mold and rancidity are discussed at some length in Prof. Vockker's report. Instances are cited of death of animals from eating moldy oats as well as moldy feeding-cakes. A number of analyses are given of pure, adulterated, and poisonous feeding-cakes, which show that the mere chemical analysis of a cake does not necessarily throw much light upon it as a feeding-cake. A much surer method of detecting adulterations is found in microscopical examination. The differences in structure of the cuticle and other parts of the different kinds of seeds used in the manufacture of oilcake are quite characteristic when examined by the microscope, as is illustrated by diagrams in the report. In general Dr. Vockker by diagrams in the report. In general Dr. Voelcker finds in these examinations great reason for carefulness in the purchase of oileake for stock. As regards the relative value of American and English linseed cake Dr. Voelcker says that "as a rule the bulk of American cake is better than the majority of linseed cakes that are manufactured in England and sold as genuine linseed cakes. Pure English linseed cake, as regards quality, however, can compete successfully with the best American barrel cake." The general superiority of American cakes he attributes to the practice of driving the cake and sending it over to England in barrels instead of packing it in bags, whereby it is prevented from damage by heat in the passage.

PROCEEDINGS OF SCIENTIFIC SOCIETIES.

SAN FRANCISCO: MICROSCOPICAL SOCIETY, Oct. 1.—A lecture was delivered by Mr. Hank on polarized light, accompanied by numerous illustrations.

PROVIDENCE: RHODE ISLAND HISTORICAL Society, Oct. 6 .- A paper was read by Simon Henry Greens of Warwick giving a biographical sketch of the Greene family, descended from John Greene, the first of the name that settled in the colony.

BOSTON: MASSACHUSETTS ANGLERS' ASSOCIA-TION, Oct. 8 .- A Committee was appointed to attend to the enforcement of the Smelt law, and also to draft a stringent law for the protection of lobsters, haddock, and cod, to be presented to the next Legislature.

ALBANY: ALBANY INSTITUTE, Oct. 20 .- The principal feature of the meeting consisted in the exhibition by Mr. Otto Neske of a portion of his extensive cabinet of butterflies and moths, which Prof. Lintner characterized as being, although not the largest in the country, yet among the best, and equal to any in the beauty of preparation and systematic arrangement. It consists of about 3,000 specimens, collected principally in New York, and including illustrations of the lepidoptera in their various stages and conditions. Mr. William J. McAlpine gave an account of observations relative to fresh water wells below the lovel of adjacent bodies of

BOSTON: MASSACHUSETTS HISTORICAL SOCIETY, Oct. 8.-Regular mouthly meeting. The Hon. Charles Francis Adams in the chair. The Chairman presented an obituary notice of Guizot, a recently deceased foreign member, after which eulogies upon Judge Curtis were delivered by Richard H. Dana, jr., and the Rev. Chandler Robins. A communication was then presented from Mr. Richard Henry Major on the voyages of the Zeno brothers in the 14th century, in which the authenticity of their discoveries was mantained. A full-length por-trait of Washington, recently copied for the Society from the original to possession of the Earl of Albemarie, was exhibited at the meeting.

SAN FRANCISCO: ACADEMY OF SCIENCE, Oct. 5.-A paper was read by Dr. J. G. Cooper of the Geological Survey on the State of California during the Pilocene epoch, accompanied by a map, showing the portions of the country then under water. According to this communication the Gulf of California extended far beyond its present limits into the southern portion of the State, and the valleys of the San Joaquin and Sacramento formed a great inland sea. The peninsula of Sa Francisco was cut up into islands, and the great basin of Kevada and Utah was mostly under water. The climate was then tropical, as shown by the fossil vegetation and

remains of animals common to the country at that period, such as a tizer, a large llams, an elephant, a rhimoceros, an immense frem-water turtle, &c. Prof. Higari of the University of Michigan avea a paper on the geology of the country north of the Gulf of Mexico.

PHILADELPHIA LITERARY NOTES.

THE NEW EDITION OF MRS. SOUTHWORTH'S NOVELS IN 37 VOLUMES ANNOUNCED BY T. B. PETERSON & BROTHERS.

[FROM THE REGULAR CORRESPONDENT OF THE TRIBUNE.] PHILADELPHIA, Nov. 11 .- To many the announcement of a new edition of the complete works of Mrs. E. D. E. N. Southworth will be a matter of interest. The first volume, which has just been issued by Messrs. T. B. Peterson & Brothers, is "Mirlam the Avenger." It will be followed in quick succession by all the other until the entire series of 37 are out. The edition is in duodecimo form and appears in ban-isome morocco cloth binding of a new design, the first volume contain ing a steel pertrait of the authoress and an engraving of her cottage on the banks of the Potomac, near Georgetown, D. C. The Messrs. Petersons have been Mrs. Southworth's publishers since 1854. Before that time she had written four or five novels which were published by New-York houses but their sale was small, and one bouse after another declined to make any further ventures for her. The first book the Petersons published for her was "The Lost Heiress," which was broaght to them after it had been refused by one or two other firms. When they determined to get it out they bought the octave piates of the novels previously printed, and broke them up. Having thus secured the medves against others reaping the harvest which their sagacity and enterprise might sow, they spent \$6,00 in advertising "The Lost Heiress"—a large sum in those days, when newspapers that now charge 25 or 30 cents a line were glad to get 5 or 10. Thus introduced, the book lesped into almost unexampled popularity. The reputation of the writer was made at once.

Larce sales have been attained for all of the many novels sine has since produced. Ever since this profitable opening of her literary career, Mrs. Southworth has written at the rate of about two novels in three years, and all have been successful ousiness ventures for her publishers. The reproduction of all her works, many of which first appearent twenty-five and intry years ago, would seem to prove that her stories are not subject to the general rule which makes an old novel of little more interest to the public than an old almanace. but their sale was small, and one bouse after another

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